Sterilization Room Maintenance

Sterilization room equipment is critical to the office's ability to process instruments. If the autoclave shuts down, instrument flow stops, potentially shutting down production. This can be extremely costly to the office. In the sterilization area, there are two common items that need routine maintenance:

Autoclaves:

Autoclaves vary in their required maintenance due to design and type. It is important to check your owners manual to see what the recommended maintenance is for your unit. Following are some generic guides to consider and implement in your maintenance plan.

Weekly:

1. (Autoclaves that reuse their water.) Drain water reservoir and allow to stay dry over the weekend. Refill with fresh water on Monday.
2. Wipe inside of autoclave chamber and racks with soft cloth.
3. (Cassette autoclaves - Statim) Clean inside cassette and seal and wipe down with Stat-dry or Jet-Dry.

Monthly:

1. Clean autoclave using manufacturer's instructions.
2. Check door gasket or cassette gasket.
3. Clean chamber filter or screen.

Semi-Annually:

1. Replace Door Gaskets
2. (Cassette autoclaves - Statim) Check and clean cassette gaskets and lube. Gasket may be lubed with liquid soap.
3. Check filters if your unit has filters and replace as needed.

Annually:

1. Replace Gaskets
2. Replace Filters (check your manual for specifics on if you use a filter.)

Instrument Washers/Cleaners:

Daily:

Check and clean pump filter as necessary. The pump filter prevents foreign objects from getting into the pump and causing problems. If burs, syringe tips, files, etc. get put into the instrument washer accidentally, these objects can become lodged in this filter. Clean these out promptly to prevent them working their way into the pump assembly.

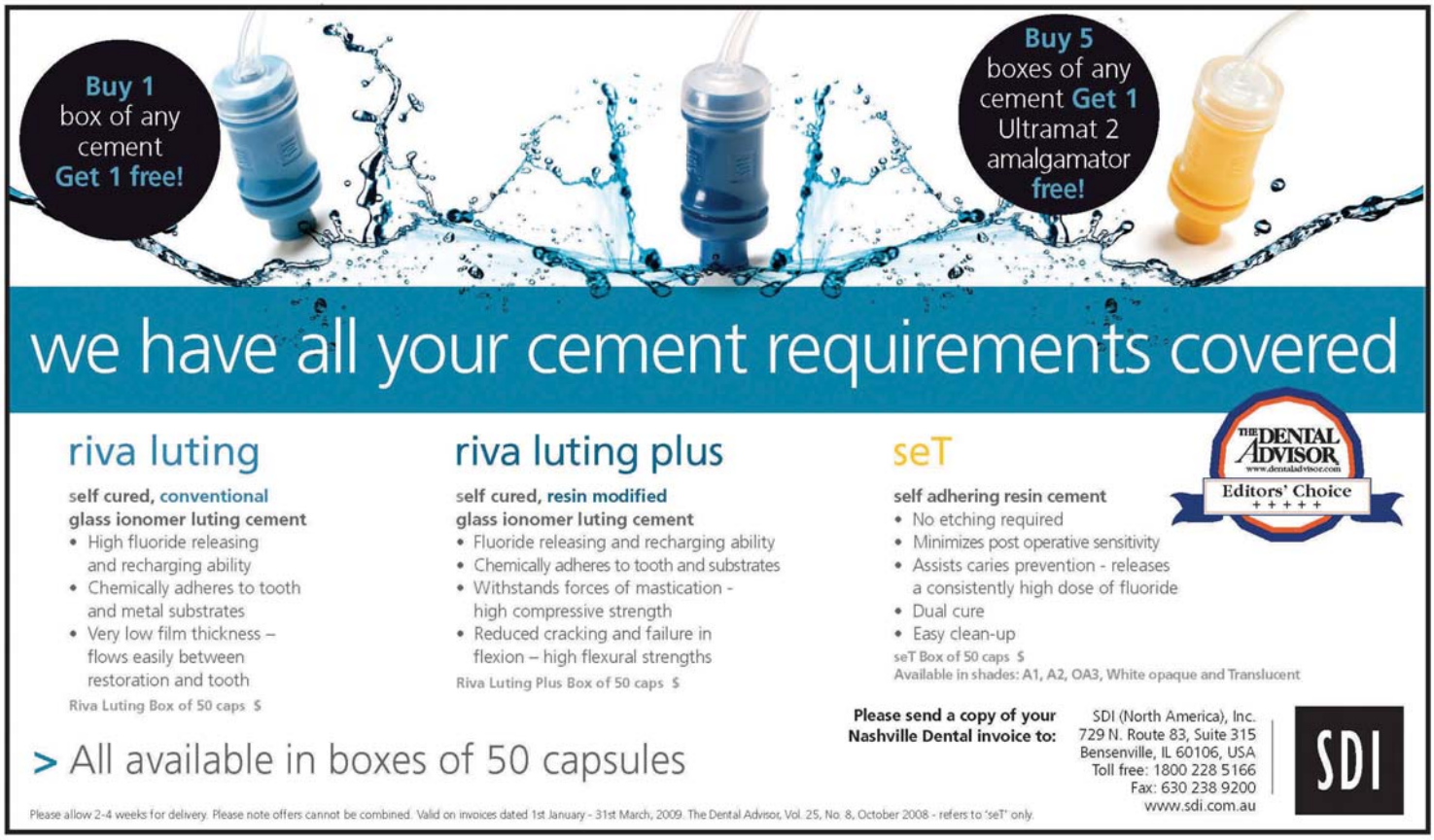
Ultrasonic cleaners - check drain screen and remove any loose burs, files or large particles.

Quarterly:

Clean spray arms. Over time, mineral deposits or debris can become lodged in the holes of the spray arms preventing thorough washing. Spray arms are easily removed. Once removed, use a sharp skinny object to push any debris from the holes and then rinse under running water.

Annually:

For Hydrim Users - the detergent metered dosage tube should be replaced annually. This will prevent too much detergent being used in each cycle. This should be done by your Nashville Dental service technician.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Easy Handpiece Maintenance

The Assistina 301 Plus is simply one of the easiest and most efficient ways to maintain your handpieces. In only 35 seconds, it automatically delivers service oil and cleaning solution through the internal channels of your handpieces, motors, and attachments – all for only 1.5 cents per cycle. You'll find the Assistina Plus:

- Provides consistent maintenance to extend handpiece life
- Costs less per use than aerosol service oil spray cans
- Works with most handpieces, motors, and attachments
- Requires only compressed air to operate

To see how you can simplify your handpiece maintenance, contact your Nashville Dental account representative today.

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Highspeed Handpiece Maintenance:

Handpieces are used repetitively and are required to do a lot of work. The cost of the handpiece is primarily in the technology of the turbine. When a handpiece goes down, it's the turbine in most cases that needs to be replaced. When planning your maintenance budget, you need to figure in the price of turbines for each handpiece every 14 - 24 months depending on the brand you use and your method of maintenance.

While cleaning and sterilizing handpieces, there is a great risk of improper handling, especially in fast paced offices. It is important to have enough handpieces in circulation so that you always have sterile, room temperature handpieces on hand. If you have to take a hot handpiece directly from the autoclave to use, this can cause premature turbine wear and failure. A good rule of thumb is to have 3 handpieces per doctor's operatory. The following is a generic guide to maintaining handpieces. Always check your user manual for specific instructions on your brand of handpiece.

After Each Use:

1. **Clean the handpiece.**
   This may be done under running water with soap and a soft brush or sponge. Do not submerge the handpiece in a bath or ultrasonic cleaning solution. Also avoid letting water run directly into the drive air tubes. Hold the handpiece with the back end down. It is important to remove any cements, saliva or blood from the body prior to autoclaving. If you don't, this material will become baked on and make the handpieces look dirty.
2. **Dry**
   Dry the handpiece with a towel prior to lubricating. Shake excess water off of the handpiece. You don't want excess water in the drive air tube when lubing.
3. **Lubricate**
   Most handpieces have a lubricant that is recommended by the manufacturer. It is always good to use the suggested lubricant. As a rule of thumb, you want a synthetic, clean, high-heat lubricant. *(Some excellent products to use are - KaVo Spray by KaVo America, Midwest Plus Lubricant by Dentsply Midwest, Phase Change by Western Phase Change Corp. and Bio Lube by Southland Dist.)* Place two to three drops of lubricant or if using an aerosol can, a 1 second blast into the drive air tube on the back of the handpiece. (This is always the smaller of the two largest holes on the back of a handpiece.) For handpieces that use a swivel, quick connect, you will need to use this to add lube unless you have an aerosol can with the appropriate nozzle for your brand of handpiece.
4. **Purge**
   After placing oil in the drive air tube, you need to run the handpiece for 15-30 seconds so the lube reaches the bearings and the excess is blown out.
5. **Wipe down**
   Wipe excess lubricant from outside of handpiece body prior to sterilizing.
6. **Sterilize**
   Bag handpiece in CDC approved sterilization pouch and autoclave according to manufacturer's instructions.
7. **Store handpiece for use**
   - Remove handpiece from sterilizer and store for use with head in the up position so that any moisture in the drive air tube can drain.
   - Always allow the handpiece to return to room termperture before running.
   - Never run handpiece under cool water to cool it enough for use. This can warp the turbine components and cause turbine failure.

In recent years, automated handpiece maintenance units have been introduced that eliminate steps 3, 4, and 5. In studies, these steps were shown to be the ones that were very inconsistent from staff member to staff member. These automated systems deliver the exact amount of lubricant to the right part of the handpiece and then run the handpiece to purge excess lube. They also deliver cleaner to the coolant water and air tubes to prevent deposits from building up in these lines.

The Assistina - by A-dec W&H, and the Quattrocare - by KaVo are the two best selling units. See your account representative for a demo or for more details on these units. Many offices have cut turbine failures in half by investing in these units.

Note: ***Handpieces are federally regulated medical devices. When service is required, remember - specific brands of handpieces are designed to be used with original manufacturer turbine cartridges. When turbines need to be changed, it is HIGHLY RECOMMENDED to use original manufacturer parts and NOT aftermarket turbines. A KaVo handpiece with an aftermarket turbine is NO LONGER a KaVo handpiece.***

Lowspeeds and Electrics: ***These motors and attachments need to be maintained exactly as the manufacturer's describe. We highly recommend one of the automated systems for maintaining your electric and lowspeed attachments.***

Highspeed Maintenance As Described By KaVo:

Step 1
Remove the MULTIflex handpiece from the MULTIflex coupler.

Step 2
Remove bur.

Step 3
Scrub handpiece under running water with a soft sponge to remove external debris.

Do not spray, wipe, or immerse in disinfectants or alcohol! Do not combine disinfection with sterilization.

Manual Procedure OR Automatic Procedure

Step 4
Fit the handpiece on the KaVo Spray with the MULTIflex Nozzle. Cover with paper towel and spray thoroughly for 3 seconds. **Other maintenance fluids are not recommended. If a large amount of** debris appears, repeat the process. *Step 4 can be omitted by using the KaVo QUATTROcare automatic maintenance system.*

Step 5
Fit the handpiece without bur onto the MULTIflex coupler or air station, allow it to run for 20 seconds and wipe off excess lubricant. *Step 5 can be omitted by using the KaVo QUATTROcare automatic maintenance system.*

QUATTROcare
Maintaining with the KaVo QUATTROcare is as easy as the following:
Position the instruments...

... close the door ...

... press Start and everything is DONE.
...Go to Step 6

Step 6
Bag and sterilize MULTIflex High-Speed handpiece without bur up to maximum 135°C (275°F) in an autoclave or chemiclave.

KaVo Dental
340 East Main Street, Lake Zurich, IL 60047
888-ASK-KaVo (275.5286) Fax 1.847.550.6825
www.kavousa.com

KaVo. Dental Excellence.

Assistina 301 Plus

Standard Product Features

- Air pressure operation
- 2 universal adapter couplings
- Cycle time - about 35 seconds
- Quick disconnect for easy use with A-dec/W&H adapters (other products require their own adapters)
- Cleaning liquid, 1 liter (good for approximately 5000 cycles)
- Service oil, .5 liter (good for approximately 5000 cycles)
- Low operating cost
- One Year Warranty

Kit
00030135 ..... 1,985.00

A-dec/W&H Synea LW RotoQuick Adapter
03104500 ..... 165.00

Service Oil, .5 Litre Refill
02675930 ..... 88.39

Cleaning Liquid, 1 Litre Refill
02680230 ..... 31.89

AC-20 Motor, Toplight Highspeed Adapter
02690400 ..... 169.00

Midwest Quick Conncect High Speed Adapter
03101900 ..... 169.00

Midwest Low Speed Attachment Adapter
03103500 ..... 135.00

Kavo Low Speed Head Adapter
02679000 ..... 88.00

Star High Speed Adapter
261547 ..... 129.00

Kavo High Speed Adapter
0411.7991 ..... 70.00

KaVo Spray - Kavo

For sterilization maintenance of all KaVo high speed handpieces, low speed motors, heads, attachments. Nozzles sold separately. H

500ml Can
0411.9660 ..... 49.59

MULTIflex Nozzle
0411.9921 ..... 13.59

Quick Nozzle: For all INTRA and INTRA LUX heads, 4-hole high speed handpieces, 181 and 182 air motors and attachments.
0411.9931 ..... 13.59

Midwest Plus™ Handpiece Maintenance System - Midwest

Heat tolerant formulation allows all maintenance to be performed before sterilization. Can be used on all Midwest high-speed, low-speed handpieces and attachments.

Midwest Plus™ Aerosol Spray - Cleaner/Lubricant in a convenient aerosol spray (nozzle sold separately), NOTE: For use with new Midwest XGT Handpieces only, (Hazardous Shipping Charge on this item.)
380080 ..... 49.99

Nozzle for Midwest Plus Aerosol Spray
380085 ..... 14.59

Plus Maintenance Kit
Contains: 2oz Lubricant and 8oz Cleaner
380145 ..... 63.39

Plus HP Lube 2oz
380130 ..... 38.29

Plus HP Cleaner 8oz
380140 ..... 32.59

Plus HP Cleaner, 1 liter
380141 ..... 84.99

Bio Lube - Southland Distribution

Handpiece lubricant and cleaner.

Intro Kit
Contains: 1 - 7oz Lubricant; 1 - 7oz Cleaner.
BIO-CL-24 ..... 107.69

Phase Change - Western Phase Change Corp.

Contains: 2 - 1fl oz bottles
LUB-DB2 ..... 70.99

QUATTROcare 2104A Automatic Handpiece Maintenance System

Handles nearly all makes and models of handpieces. Extends handpiece life by providing superior cleaning and lubrication compared to manual cleaning. Provides additional six month warranty on most models of KaVo handpieces. Automatic cleaning, lubricating and purging system for up to four handpiece or air motors. Easy to use. Flexible programming allows operator to choose and set total cycle time form 20 to 45 seconds per handpiece. Equipped with two MULTIflex adapters and one INTRAmatic (E-type) adapter and one INTRA head adapter.

Contains: Unit, electrical cable connection, air line connection, MULTIflex adapter, 1 INTRAmatic E-type adapter, 1 INTRAhead adapter, 1 can QUATTROcare spray.
0411.7800 ..... Ea. 2,749.00

MULTIflex Adapter

For KaVo cellular optic high speeds, SONICflex Air Scaler and INTRAflex low speeds.
0411.7991 ..... Ea. 70.00

E-Type Adapter

For INTRAmatic low speeds and surgical attachments.
0411.7981 ..... Ea. 68.89

INTRAhead Adapter
0411.7941 ..... Ea. 89.00

QUATTROcare Spray
For cleaning and care of instuments/air motors in the KaVo QUATTROcare system. Relubrication after sterilization is unnecessary.**H**
1005.4524 ..... 500 mL 47.99

H **Hazardous Material**

It's so easy!

Position up to 4 instruments...

... close the door...

... press Start and everything is done!